COSC 412 Group 4 Project  
National Parks Website

Group Members: Andrew Knickman, Ayja Weems, Mary Martin, Jorge Brito, Rojaleen Chhetry, Sundeep Singh, Greg Nikol

# Table of Contents

[**Table of Contents**](#_oe925fm58i6h) **2**

[**Revisions**](#_eo0m9c37itu2) **3**

[**Preface**](#_omovm9klka21) **4**

[**Introduction**](#_xc7bzphackgn) **5**

[Project Overview](#_i53y38ci6d6r) 5

[Project Deliverables](#_gm19j9habjxt) 5

[SPMP Evolution](#_qtrderylds5w) 6

[Reference Materials](#_2bsqqd41tktl) 6

[Definitions](#_ssk0k5nerzzw) 6

[**Project Organization**](#_m6gi3gaahcti) **7**

[Process Model](#_y99sk2c1tnxv) 7

[Organizational Structure](#_c18dkmui261z) 7

[Organizational Interfaces](#_ywwt1afrj21d) 7

[Project Interfaces](#_2jly7z3k5juo) 7

[**Managerial Process**](#_wo0zcmc6zite) **8**

[Management Objectives and Priorities](#_dpnf6d32oxa1) 8

[Assumptions, Dependencies and Constraints](#_p40jbbc2vn1c) 8

[Risk Management](#_l7zdtl1uw6ez) 8

[Monitoring and Controlling Mechanisms](#_uk1kkwtjjxh0) 8

[Staffing Plan](#_7t73723mqsrl) 8

[**Technical Process**](#_asjlcd8xnb3r) **9**

[Methods, Tools and Techniques](#_icm8kl92g6gt) 9

[Software Documentation](#_6ap1xql3zf68) 9

[Project Support Functions](#_fsyi84wmgn3) 9

[**Work Packages**](#_w92qoc4kopt5) **10**

# Revisions

*March 13, 2018*

* Pushed previous weekly submissions to group repository.

# Preface

The goal of this project is to contribute towards re-invigorating public interest in the National and State Parks by bring the Parks website into the modern era with a new look and “grabbing” features.

The project will feature:

* Centralized website for all state and national parks containing background information, and imagery.
* Donations page for commercial and private entities
* Anonymous and user submissions of images, park descriptions and reviews.
* Social Media Integration
* Online ticketing support
* Online gaming experience

# Introduction

## Project Overview

For this project, we are creating a all national and state parks website where the website will feature background information, images and reviews of each national and state park in the US. Guests on the website can chose to make profiles using their social media for a personalized gaming experience by checking in to the parks they have been to. They can set up little campsites and can win prizes by visiting different parks and collecting points. Guests who have made user profiles can also post pictures and reviews for parks they have visited. Everyone can use the website to search, purchase tickets and donate to specific parks.

**Project Deliverables**

|  |  |  |
| --- | --- | --- |
| DATE | DELIVERABLE | ASSIGNED MEMBERS |
| Friday, March 23, 2018 | Complete Website Front-End   * Homepage * State and Parks Directory * Pricing and Tickets * Donations * Gallery * User Profiles | * ALL |
| Tuesday, March 27, 2018 | Mid-Semester Presentation | * ALL |
| Friday, March 30, 2018 | Complete SQL Database | * Sundeep * Jorge |
| Friday, April 6, 2018 | Complete Website Back-End | * Mary * Rojaleen |
| Friday, April 13, 2018 | Complete State and Parks Directory  Complete Google Maps Interface | * Greg * Greg |
| Friday, April 20, 2018 | Complete Interactive Game  Complete Universal Toolbar | * Andrew * Ayja * Mary |
| Friday, April 27, 2018 | Complete User Profiles  Complete Login/Sign Up  Complete Social Media Interface | * Andrew * Ayja * Ayja |
| Friday, May 4, 2018 | Complete Pricing and Tickets  Complete Donations  Complete Stripe Interface | * Rojaleen * Sundeep * Sundeep * Rojaleen |
| Friday, May 11, 2018 | Complete Gallery | * Jorge |
| Friday, May 18, 2018 | Debug and Cleanup | * ALL |
| Tuesday, May 22, 2018 | Final Presentation | * ALL |

## SPMP Evolution

Website will be designed with options for easy addition of fields in areas such as the universal dropdown menu, social network connectivity, and galleries. All webpages will be designed such that they expect and are prepared to display additional information added by website administrators. The administrator side of the website (back-end) will be designed such that administrators are free to change the different permissions and structure of the website with minimal difficulty.

## Reference Materials

*List of materials utilized in project development:*

* GitHub Repository
* Google Maps
* Facebook, Instagram, Twitter, Google+ Interface
* Stripe Interface
* Unity Game Engine
* SQL Database

## Definitions

*Definitions of terms specific to project are as follows:*

* State and Parks Directory:  
  Webpage with Google Maps interface featuring listings of state parks with various options for listing organization, including park name, location, and cost.

# 

# Project Organization

## Process Model

* Website Homepage
  + Displays:
    - Gallery
    - News and Events
    - Featured Users
* Universal Toolbar
  + Dropdown Menu
  + Login
  + Signup
* State and Parks Directory
  + Google Maps Interface
* Donations
  + Stripe Interface
* User Profiles
  + Social Media Interface
* Gallery

## Organizational Structure

|  |  |
| --- | --- |
| **NAME** | **ROLE** |
| Andrew Knickman | Game Developer, User Profiles Webpage |
| Ayja Weems | Social Media Interface Developer, Universal Toolbar Sign-In and Sign-Up |
| Jorge Brito | SQL Database Developer, Gallery Webpage, |
| Sundeep Singh | SQL Database Developer, Donations Webpage, Stripe Interface |
| Greg Nikol | State and Parks Directory, Google Maps Interface |
| Rojaleen Chhetry | Back-End Web Developer, Pricing and Tickets Webpage, Stripe Interface, |
| Mary Martin | Back-End Web Developer,  Homepage Developer, Contacts, Universal Toolbar Dropdown Menu |

## Organizational Interfaces

*Project associations with other entities are as follows:*

* Google Maps
* Facebook, Twitter, Instagram, Google+
* Unity Game Engine
* Stripe

## Project Responsibilities

|  |  |
| --- | --- |
| **NAME** | **ROLE** |
| Andrew Knickman | Game Developer, User Profiles Webpageas |
| Ayja Weems | Social Media Interface Developer, Universal Toolbar Sign-In and Sign-Up |
| Jorge Brito | SQL Database Developer, Gallery Webpage, |
| Sundeep Singh | SQL Database Developer, Donations Webpage, Stripe Interface |
| Greg Nikol | State and Parks Directory, Google Maps Interface |
| Rojaleen Chhetry | Back-End Web Developer, Pricing and Tickets Webpage, Stripe Interface, |
| Mary Martin | Back-End Web Developer,  Homepage Developer, Contacts, Universal Toolbar Dropdown Menu |

# Managerial Process

## Management Objectives and Priorities

*Management Philosophy*

Deliver engaging, user-friendly software followed by dedicated and sustained software maintenance and management.

*Top Priorities*

Design a website with an easy-to-use interface for locating state parks.

*Schedule and Budget*

|  |  |  |
| --- | --- | --- |
| DATE | DELIVERABLE | ASSIGNED MEMBERS |
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## Assumptions, Dependencies and Constraints

*Assumptions, dependencies, and constraints of the project are as follows:*

* Website is dependent on interface with Google Maps for parks information.
* Website is dependent on Stripe for payment handling.
* Website is dependent on social media networks for some aspects of user management.
* Assumed that a user will be able to access any webpage in the domain via the universal toolbar and dropdown menu.

## Risk Management

## Monitoring and Controlling Mechanisms

*The project will be monitored and controlled using Github to keep track of member contributions and changes to code.*

*Team communication will be primarily through GroupMe for day to day progress.*

## Staffing Plan

*This project is directed by 7 individuals in charge of various aspects of website development, management, and maintenance.*

|  |  |
| --- | --- |
| **NAME** | **ROLE** |
| Andrew Knickman | Game Developer, User Profiles Webpage |
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| Greg Nikol | State and Parks Directory, Google Maps Interface |
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# Technical Process

## Methods, Tools and Techniques

## Software Documentation

* We will be using GitHub to document any changes to our codes or weekly deliverables.
* Every changes made in any of our code will be saved so we can look back if anything else breaks.

## Project Support Functions

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# Work Packages